IDENTITY CARD FOR MQXA LOW-BETA QUADRUPOLE MQXA-09

General		
Tested at KEK	7 Jan. 2003 - 30 Jan. 2003	
MEB approval		
Prepared by	N. Ohuchi, T. Nakamoto	
Last modified	1 May 2003	

Coil performance		
1st quench, A	6902.0	
2nd quench, A	6830.4	
Nb quenches to 215T/m	2	
Nb cooldown	1	
1st quench after last TC, A		

Electrical insulation				
He-gas; < 10K, 1500V, 1 min.	Coil	>100 G[]		
	Heater	>100 G[]		
Air; R.T., 3000V, 1 min.	Coil	Not yet		
	Heater	Not yet		

	Integral magnetir field				
	Injection	Flat∹op			
Magnet current	392.22	7228.03	A		
Field gradient	12.370	216.30	T/m		
Transfer function	31.539	29.925	T/m/kA		
Magnetic length	6.366	6,369	III.		
ъ2	100 00 .	10000.	units		
р3	-0.22	0.04	units		
Ъ4	1.22	125	units		
Ъ5	-0.04	-0.00	units		
Ъ6	-0.49	0.30	units		
Ъ7	-0.01	-0.00	units		
ъ8	0.03	0.02	units		
Ъ9	-0.00	-0.01	units		
Ъ 10	0.03	-0.02	units		
Ъ11	-0.00	-0.01	units		
a2	0.	0.	units		
a.3	0.05	0.01	units		
a4	-0.98	0.69	units		
a.5	-0.08	-0.03	units		
аб	-0.02	-0.06	units		
a.7	-0.01	-0.01	umits		
a8	0.02	0.03	units		
a9	-0.01	-0.00	units		
a10	-0.00	-0.01	units		
a11	-0.00	-0.00	units		

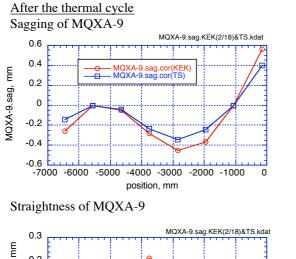
Main non-conformities - specificities		
Electrical/Instrumentation	New grand insulation with pole flap hole	
Mechanical		
Magnetic		
Others		

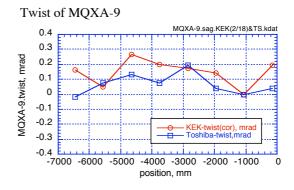
Dispositions of the Magnet Evaluation Board

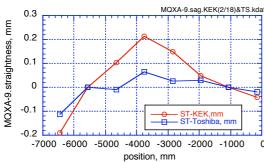
Results of the sagging, straightness and twist

The results by KEK and Toshiba (TS) are described in the following plots.

The measurements by KEK were performed both before and after the thermal cycle, while those by TS were performed before being delivered to KEK.







There is no data before the thermal cycle because of the level-scope trouble.